PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
LINO732PWO	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/EP2004/000224	14-01-2004	17-01-2003					
International Patent Classification (IPC) or nati	onal classification and IPC						
A61F 2/36	A61F 2/36						
Applicant							
WALDEMAR LINK GMBH & CO. KG							
This report is the international prelimant under Article 35 and transmitted to the second control of the	minary examination report, established by the applicant according to Article 36.	this International Preliminary Examining Authority					
2. This REPORT consists of a total of	•	his cover sheet.					
3. This report is also accompanied by A	NNEXES, comprising:						
a. (sent to the applicant and	to the International Bureau) a total of 2	sheets, as follows:					
sheets of the descrip	otion, claims and/or drawings which have be	een amended and are the basis for this report and/or					
sheets containing re Instructions).	ctifications authorized by this Authority (se	e Rule 70.16 and Section 607 of the Administrative					
sheets which supers	edes earlier sheets, but which this Authority	considers contain an amendment that goes beyond					
the disclosure in the Box.	e international application as filed, as indic	cated in item 4 of Box No. I and the Supplemental					
b. (sent to the International	Bureau only) a total of (indicate type and nu	umber of alastronia asmismos)					
	24. Can only a total of (indicate type and in						
related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relati	ing to the following items:						
Box No. I Basis of the	ereport						
Box No. II Priority							
Box No. III Non-establi	ishment of opinion with regard to novelty, ir	nventive step and industrial applicability					
	ity of invention						
Box No. V Reasoned s	statement under Article 35(2) with regard to de explanations supporting such statement	novelty, inventive step or industrial applicability;					
	cuments cited						
Box No. VII Certain def	ects in the international application						
	servations on the international application						
Date of submission of the demand	Date of completion	of this report					
13-08-2004	l l	Date of completion of this report $07-02-2005$					
		- -					
Name and mailing address of the IPEA/	Authorized officer	Authorized officer					
Facsimile No.	Telephone No.	Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000224

Box N	Vo. I	Basis of the report				
1.	With	regard to the language, this report is based on:				
[the international application in the language in which it was	filed			
ſ		the translation of the international application into		, which is the language of a		
	_	translation furnished for the purposes of:		J		
		international search (Rule 12.3(a) and 23.1(b))				
		publication of the international application (Rule 12.4)				
		international preliminary examination (Rule 55.2(a) ar				
	recei	regard to the elements of the international application, this iving Office in response to an invitation under Article 14 are report):	report is based on (replacement sheets whi. ? referred to in this report as "originally f	ch have been furnished to the îled" and are not annexed to		
		the international application as originally filed/furnished				
	\boxtimes	the description:				
		pages 1-11		as originally filed/furnished		
		pages*	·			
	_	pages*	received by this Authority on			
	\boxtimes	the claims:				
		pages		as originally filed/furnished		
		pages*	as amended (together with any			
		pages* 1-9	_12.08	.2004 / letter of .2004		
		pages*	received by this Authority on			
	X	the drawings:				
		pages 1/1		as originally filed/furnished		
		pages*	received by this Authority on			
	_	pages*	received by this Authority on			
		a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the eleine No.				
		the descripes should be				
		any table(s) related to sequence listing (specify):				
4.						
	the description, pages					
	the claims, Nos.					
		the drawings, sheets/figs				
		the sequence listing (specify):				
	any table(s) related to sequence listing (specify):					
<u> </u>	* If item 4 applies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000224

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
. Statem	ent		
No	velty (N) Claims 1-9	YES	
	Claims	NO	
Inv	entive step (IS) Claims 1-9	YES	
	Claims	NO	
Ind	ustrial applicability (IA) Claims 1-9	YES	
	Claims	NO	
Ind	Claims		

2. Citations and explanations (Rule 70.7)

Reference is made to the following document:

D1: EP-A-0 682 924 (HERMANN WERNER)
22 November 1995 (1995-11-22).

Document D1 is considered to the prior art closest to the subject matter of claim 1. Said document discloses (the references in parentheses are to D1) a femoral prosthesis (column 2, lines 31-57, figure 2) with a shaft (6) the distal section of which has a cross section that tapers towards the distal end (9), longitudinal ribs (10) being provided at least on the lateral and medial side of said shaft. Longitudinal ribs of different height are arranged in series, the height of the individual longitudinal ribs being constant relative to the longitudinal axis of the shaft, such that the ribs increase in height along the taper towards the distal end.

The subject matter of claim 1 therefore differs from the known hip prosthesis in that, at a distance of 1 cm from the distal end, the cross section of the core of the shaft is delimited by a right angle with an axial ratio

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

of at least 1.5 and, close to the distal end, has a rib on each of the two lateral edges, the mean height of said ribs being less than 2 mm and the delimitation of the shaft-core cross section between the two ribs not projecting laterally beyond the two ribs.

Thus, the subject matter of claim 1 is novel (PCT Article 33(2)).

The problem addressed by the present invention can, in consequence, be regarded as that of preventing the bone substance compressed between the ribs from escaping sideways and, at the same time, avoiding an overloading of the lateral bone wall.

The solution to the above problem, as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)). The reasons are the following: said problem is solved in that, firstly, the necessary longitudinal ribs are provided and, secondly, because of the rectangular cross section of the lateral bone wall, the greatest possible load transmission surface is placed in opposition. This solution is not disclosed in any of the documents cited in the international search report, nor is it rendered obvious thereby.

Claims 2-9 are dependent on claim 1 and therefore likewise satisfy the requirements of the PCT in respect of novelty and inventive step.